CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.03/MBH/CSR-1/730/AGG/GR/2014-15 : 13.01.2015

TEST REPORT ON COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. M.B. Hombal,** No.828/1, S.R.S. Road,1st Stage, Peenya, Bangalore.
* Name of Work	: Construction of culverts and improvements of drains in Akshyanagara area in Amur Ward No.03, BBMP, Bangalore.
Reference	: BBMP/AEE/YNSD/125/2014-15 Dated: 09.01.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 09.01.2015
Date of Testing	: 13.01.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.50	95-100	85-100
20	56.00	30-70	0-20
10	28.48	10-35	0-5
4.75	4.98	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

Note:

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

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VISHWANATH .C
Quality Manager

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Job No.: CTCE/BBMP/W.No.03/MBH/CSR-1/730/AGG/GR/2014-15 : 13.01.2015

TEST REPORT ON COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore
* Agency	: **Mr. M.B. Hombal,** No.828/1, S.R.S. Road,1st Stage, Peenya, Bangalore.
* Name of Work	: Construction of culverts and improvements of drains in Akshyanagara area in Attur Ward No.03, BBMP, Bangalore.
* Reference	: BBMP/AEE/YNSD/125/2014-15 Dated: 09.01.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (20mm)
Sample Received on	: 09.01.2015
Date of Testing	: 13.01.2015

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.20	95-100	85-100
10	27.20	25-55	0-20
4.75	6.74	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No: CTCE/BBMP/W.No.03/MBH/CSR-1/730/SAND-Gradation/2014-15 : 12.01.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.

* Agency : **Mr. M.B. Hombal,**
No.828/1, S.R.S. Road,1st Stage, Peenya, Bangalore.

* Name of Work : Construction of culverts and improvements of drains in Akshyanagara area in Attur Ward No.03, BBMP, Bangalore.

Reference : BBMP/AEE/YNSD/125/2014-15 Dated: 09.01.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 09.01.2015

Date of Testing : 12.01.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.00	90-100	90-100	90-100	95-100
2.36	81.74	60-95	75-100	85-100	95-100
1.18	56.74	30-70	55-90	75-100	90-100
600 Micron	30.24	15-34	35-59	60-79	80-100
300 Micron	12.74	5-20	8-30	12-40	15-50
150 Micron	2.74	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No: CTCE/BBMP/W.No.63/MBH/CSR-1/730/CEMENT/2014-15

Date: 12.01.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Yelahanka New Town Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. M.B. Hombal,** No.828/1, S.R.S. Road,1st Stage, Peenya, Bangalore.
*NAME OF THE WORK	:	Construction of culverts and improvements of drains in Akshyanagara area in Attur Ward No.03, BBMP, Bangalore.
*REFERENCE	:	BBMP/AEE/YNSD/125/2014-15 Dated: 09.01.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	09.01.2015
PERIOD OF TESTING	:	09.01.2015 to 12.01.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	460 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

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Job No: CTCE/BBMP/W.No.03/MBH/Pre slab/2014-15

17.01.2015

PRE CAST SLAB(CORE) TEST REPORT

Name of Customer	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
Name of Agency	:	**Mr. M.B. Hombal,** No.828/1, S.R.S. Road,1st Stage, Peenya, Bangalore.
Name of work	:	Construction of culverts and improvements of drains in Akshyanagara area in Attur Ward No.03, BBMP, Bangalore.
Referece	:	BBMP/AEE/YNSD/125/2014-15 Dated: 09.01.2015
No.of Sample Tested	:	03
Date of Testing	:	17.01.2015
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	77.00	0.379	2506.79	1.54	0.955	32.10	16.35	17.66	16.86	21.08
2	50.00	78.00	0.385	2513.83	1.56	0.960	32.90	16.76	18.10	17.37	21.72
3	50.00	79.00	0.392	2527.14	1.58	0.965	33.35	16.99	18.34	17.70	22.13

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